



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)

NAKAE *et al.*)

Application Number: 09/527,440)

Filed March 17, 2000)

For: PRIMER DESIGN SYSTEM)

Attorney Docket No. HIRA.0003)

Honorable Assistant Commissioner
for Patents
Washington, D.C. 20231

Art Unit 1631

Examiner Clow, Lori A

2016
Plunkett
12/19/02

RECEIVED

DEC 19 2002

TECH CENTER 1600/2900

RESPONSE AND AMENDMENT UNDER 37 C.F.R. §1.111

Sir:

This is in response to the office action dated September 25, 2002, in the above identified application, the period for response to which will expire on December 25, 2002. Please amend the above identified application with the replacement paragraphs/sections/claims as follows:

IN THE CLAIMS:

Please substitute claims 1, 30 and 34 with the following amended claims:

1. A primer design system, comprising:

means for selecting at least one genomic DNA nucleotide sequence from a database including a plurality of DNA nucleotide sequences;

means for predicting a plurality of exons of said selected DNA nucleotide and for storing positions of the predicted exons;

means for using each of the predicted exons as a template to design one corresponding primer pair for each of the predicted exons and for designing corresponding primer pairs for the predicted exons simultaneously; and

means for automatically collating said plurality of primer pairs with said predicted exons and the DNA nucleotide sequence.

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Washington, D.C. 20231****RECEIVED****DEC 19 2002****TECH CENTER 1600/2900****COVER LETTER**

Sir:

[] The fee for submission of additional claims *via facsimile* is calculated as shown below:

FOR	TOTAL WITH NEW CLAIMS ADDED	TOTAL CURRENTLY ON FILE	CLAIMS PAID	RATE	CALCULATION
Total Claims	18	18	0 (Over 20)	x \$18	0
Independent Claims	7	7	4 (Over 3)	x \$84	0
MULTIPLE DEPENDENT CLAIM(S)				+ \$280	0
REDUCTION FOR FILING BY SMALL ENTITY (note 37 C.F.R. §§ 1.9, 1.27, 1.28). IF APPLICABLE, VERIFIED STATEMENT MUST BE ATTACHED				x ½	
				TOTAL	0.00

In addition, the below-identified communications are submitted in the above-captioned application or proceeding:

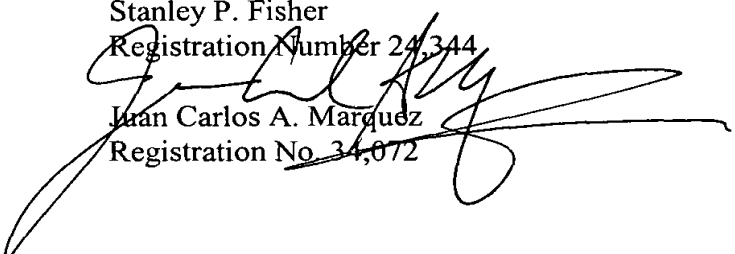
- [x] Response to Office Action
(with Claim Amendments)
[] Information Disclosure Statement
[] Preliminary Amendment
[] Substitute Specification
[] Other _____

- [] Petition for Extension of Time
[] Terminal Disclaimer
[] Letter to Draftsperson
[] Assignment
[] Petition under _____

- [] Please charge my **Deposit Account Number** _____ in the amount of _____ to cover the fees for _
_____. A duplicate copy of this paper is enclosed.
- [] A check in the amount of **\$0.00** to cover the fee is enclosed.
- [x] The Commissioner is hereby authorized to charge any additional fees associated with this communication, including patent application filing fees and processing fees under 37 C.F.R. § 1.16 and 1.17, or credit any overpayment to **Deposit Account Number 08-1480**.

Respectfully submitted,

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